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|--|-----------------|-----------------------|----------------|--------------------|------|
| RECLAMATION SURETY ESTIMATE | | | | | Note |
| Emery Industrial Resources, Inc. | | last revision | | 04/23/02 | |
| Cherry Hill Park Mine | | filename M049-021.WB2 | | | |
| M/049/021 | | Utah County | | | |
| Prepared by Utah State Division of Oil, Gas & Mining | | | | | |
| -Access road, building, loading ramp, facilities not included in this estimate (0.85 acres) | | | | | |
| -1.5 acres of the site will not receive topsoil | | | | | |
| -4.2 acres has been regraded (not seeded) | | | | | |
| -A depth of 6 inches of growth medium to be placed over entire site, because of insufficient amounts of soil, amended reject fines will also be used to complete reclamation. | | | | | |
| Note: actual unit costs may vary according to site conditions | | | | | |
| last unit cost update | | | | 2-Aug-00 | |
| -Amount of disturbed area which will receive reclamation treatments = | | | | 19.75 acres | |
| -Estimated total disturbed area for this mine = | | | | 20.6 acres | |
| <u>Activity</u> | <u>Quantity</u> | <u>Units</u> | <u>\$/unit</u> | <u>\$</u> | |
| Safety gates, signs, etc. (mtls & installation) | 1 | sum | 200 | 200 | (1) |
| Regrading disturbed areas (1 ft depth) | 15.55 | acre | 502 | 7806 | (7) |
| Ripping pit floors, stockpiles & compacted areas | 19.75 | acre | 234 | 4622 | (9) |
| Highwalls reduction (1800' X 10' @ 3:1)) | 3000 | CY | 0.5 | 1500 | |
| Topsoil replacement - dozer | 4900 | CY | 0.5 | 2450 | (12) |
| Growth medium replacement - dozer | 9800 | CY | 0.5 | 4900 | (13) |
| Composted manure (5 ton/acre) | 6 | acre | 150 | 900 | (00) |
| Composted manure (10 ton/acre) | 13.75 | acre | 300 | 4125 | (00) |
| Broadcast seeding | 19.75 | acre | 225 | 4444 | (00) |
| General site cleanup & trash removal | 10 | acre | 50 | 500 | (00) |
| Equipment mobilization | 1 | equip | 1000 | 1000 | (00) |
| Reclamation supervision | 5 | days | 386 | 1930 | (15) |
| | | Subtotal | | 34376 | |
| 10% Contingency | | | | 3438 | |
| | | Subtotal | | 37814 | |
| Escalate for 5 years at 2.82% per year | | | | 5641 | |
| | | Total | | 43455 | |
| Rounded surety amount in year 2007 \$ | | | | 43500 | |
| Average cost per disturber acre = | | | | 2109 | |

Note

- (1) DOGM lump sum assumed
- (7) Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth
- (9) Means 2000 & Blue Book 3Q/00: Cat D8N, U, multi shank rippers, speed 1.0 mph
- (12) Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 100 ft push
- (13) Means 2000 & Blue Book 3Q/00: Cat 627F P-P, mtl 2550 lb/CY, 2,000 ft haul one-way, grade +/- 4%,
- (00) DOGM general estimate - manure \$16/ton delivered, \$14 ton/acre spreading
- (00) DOGM general estimate - broadcast seeding
- (00) DOGM general estimate - site cleanup & trash removal
- (00) DOGM general estimate - equipment mobilization
- (15) Means 2000, 01300-700-0180, project manager, minimum \$1,930/wk

M/049/021

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|--|--|--------------|-----------------------|-----------|-------------|
| RECLAMATION SURETY ESTIMATE | | | | | |
| Emery Industrial Resources, Inc. | | | last revision | 04/23/02 | |
| Cherry Hill Park Mine | | | filename M049-021.WB2 | | |
| DOGM file Number M/049/021 | | | Utah County | | |
| Prepared by Utah State Division of Oil, Gas & Mining | | | | | |
| -Access road, building, loading ramp, & facilities not included in this estimate (0.85 acres) | | | | | |
| -1.5 acres of the site will not receive topsoil | | | | | |
| -4.2 acres has been regraded - not seeded | | | | | |
| -A depth of 6 inches of growth medium to be placed over the entire site, because insufficient amounts of soil for reclamation. Amended reject fines will be used to complete reclamation. | | | | | |
| Note: actual unit costs may vary according to site conditions | | | last unit cost update | 08/02/00 | |
| -Amount of disturbed area which will receive reclamation treatments = | | | 19.75 acres | | |
| -Estimated total disturbed area for this mine = | | | 20.6 acres | | |
| <u>Activity</u> | <u>Quantity</u> | <u>Units</u> | <u>\$/unit</u> | <u>\$</u> | <u>Note</u> |
| Safety gates, signs, etc. (mtls & installation) | 1 | sum | 200 | 200 | (1) |
| Regrading facilities areas (1ft depth) | 15.55 | acre | 502 | 7806 | (7) |
| Ripping pit floors, stockpile & compacted areas | 19.75 | acre | 234 | 4622 | (9) |
| Highwall reduction (1800' x 10' @ 3:1) | 3000 | CY | 0.5 | 1500 | (9) |
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| Composted manure (5 ton/acre) | 6 | acre | 150 | 900 | (00) |
| Composted manure (10 ton/acre) | 13.75 | acre | 300 | 4125 | (00) |
| Broadcast seeding | 19.75 | acre | 225 | 4444 | (00) |
| General site cleanup & trash removal | 10 | acre | 50 | 500 | (00) |
| Equipment mobilization | 1 | equip | 1000 | 1000 | (00) |
| Reclamation supervision | 5 | days | 400 | 2000 | (15) |
| | Subtotal | | | 34446 | |
| 10% Contingency | | | | 3445 | |
| | Subtotal | | | 37891 | |
| Escalate for 5 years at 2.82% per year | | | | 5653 | |
| | Total | | | 43544 | |
| Rounded surety amount in year 2007 \$ | | | | 43500 | |
| Average cost per disturber acre = | | | | 2114 | |
| (1) | DOGM lump sum assumed | | | | |
| (7) | Means 2000 & Blue Book 3Q/00: Cat D8R, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth | | | | |
| (9) | Means 2000 & Blue Book 3Q/00: Cat D8R, U, multi shank rippers, speed 1.0 mph | | | | |
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| (00) | DOGM general estimate - site cleanup & trash removal | | | | |
| (00) | DOGM general estimate - equipment mobilization | | | | |
| (15) | Means 2000, 01300-700-0180, project manager, minimum \$1,000/wk | | | | |